

Oxifree Material Datasheet



Introduction

Oxifree TM198 was developed for use to combat the worldwide corrosion issues that are faced by all industries and infrastructure. Specifically Oxifree TM198 offers a solution to protect complex metallic structures for short or extended periods of time.

Description

Is a polymeric resin coating applied in a fluid state, it can easily removed when required and is 100% reusable. It contains anti corrosion substances that inhibit corrosion and penetrate threaded fastenings to stop seizures.

Recommended Use

- Anti corrosion protection coating applied to bolted flanges, valves, bearing housings, critical pipeline connections, short and long term storage of strategic machine parts and metal surfaces regardless of size or shape that are exposed to aggressive/corrosive working and storage environments.
- Metal interfaces composed of different materials and metal surfaces affected by corrosion caused by exposure to chemical and maritime environments.
- Protection of mobile machinery and components, in short or long term storage.
- The flexible polymeric resin coating allows for easy removal for inspection and Re-application during scheduled maintenance.

Approval References

- Salt Spray - saline mist test - ASTM B-117 – 11.688 hours. No failure
- Weathering/UV test - ASTM G154 – 400 hours. Unchanged Integrity
- No Volatile Organic Compounds

Appearance

Standard grey, semi -gloss surface or others on request.

Melting Point

120°C

Recommended application temp	165 to 175°C (Operating temperatures should not exceed this).
Flashpoint	Greater than 220°C
Chemical definition	100% Solids
Resistance	Will resist a wide range physical metal reactions inclusive of chemical splashing and sea water/spray
Application	<p>By a choice of 3 portable units to heat apply the Oxifree TM198</p> <ul style="list-style-type: none"> ● 22 Kg capacity machine for general applications ● 6 Kg capacity machine for smaller applications ● 50 Kg capacity machine for large or static applications
Surface preparation	By A general commercial clean to remove loose and flaking fragments of existing coatings and rust. Followed by a solvent wash with water to remove any oily surface contaminants and dry the surface before applying the Oxifree material.
Recommended thickness	<ul style="list-style-type: none"> ● 4,0 mm for protection on the spot / site ● 2,0 mm for protection of parts in stock
Time to dry	<p>Varies depending on ambient conditions and surface temp but no more than</p> <ul style="list-style-type: none"> ● Touch Dry: 3 - 5 minutes ● Overlay: 5 - 10 minutes ● General Handling: 15 minutes (to avoid skin burns)
Applying in adverse conditions	<ul style="list-style-type: none"> ● Exposure to extreme temperatures and UV may induce the appearance of rust inhibiting agents on the surface of the coating resulting in a slight change of appearance however this does not affect the preventive corrosion characteristics of Oxifree ● Applications in temperatures below -15 ° C that are free of ice and moisture will require a continuous application process. ● Maximum temperature of the surface for application: 90°C. Environments with temperatures around or below -20°C may need special Oxifree additives.